

Table C-85. Federal obligations for research and development, by State, selected agency, and performer: fiscal year 1999

[Dollars in thousands]

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State and agency	Total	Intra-mural ¹	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Alabama, total	1,806,956	771,923	765,210	0	249,207	0	16,957	0	3,659
Department of Agriculture	19,531	6,155	0	0	13,376	0	0	0	0
Department of Commerce	1,171	198	598	0	375	0	0	0	0
Department of Defense, research ²	70,779	29,772	30,062	0	8,823	0	2,120	0	2
Department of Defense, total development ³	955,631	419,201	532,521	0	3,750	0	159	0	0
Department of Energy	19,877	0	14,762	0	4,639	0	476	0	0
Department of Health & Human Svcs	180,635	380	3,170	0	165,870	0	11,025	0	190
Department of the Interior	6,338	5,855	33	0	243	0	0	0	207
Department of Transportation	4,877	159	517	0	941	0	0	0	3,260
Environmental Protection Agency	5,100	0	1,171	0	3,896	0	33	0	0
National Aeronautics and Space Admin	528,417	310,203	181,876	0	33,696	0	2,642	0	0
National Science Foundation	14,600	0	500	0	13,598	0	502	0	0
Alaska, total	115,015	53,287	16,095	0	38,356	0	2,005	0	5,272
Department of Agriculture	9,901	5,164	0	0	4,737	0	0	0	0
Department of Commerce	26,346	22,611	0	0	3,735	0	0	0	0
Department of Defense, research ²	2,605	591	121	0	1,893	0	0	0	0
Department of Defense, total development ³	15,438	2,907	12,531	0	0	0	0	0	0
Department of Energy	3,264	0	152	0	2,862	0	0	0	250
Department of Health & Human Svcs	3,904	2,000	0	0	1,072	0	367	0	465
Department of the Interior	26,214	20,007	2,962	0	2,486	0	218	0	541
Department of Transportation	3,416	0	0	0	0	0	0	0	3,416
Environmental Protection Agency	789	0	0	0	189	0	0	0	600
National Aeronautics and Space Admin	9,504	7	126	0	9,326	0	45	0	0
National Science Foundation	13,634	0	203	0	12,056	0	1,375	0	0
Arizona, total	1,116,946	170,099	705,783	0	187,566	38,247	10,251	0	5,000
Department of Agriculture	24,890	16,663	0	0	8,177	0	30	0	20
Department of Commerce	3,267	126	2,192	0	474	0	475	0	0
Department of Defense, research ²	48,843	10,390	20,581	0	17,822	0	9	0	41
Department of Defense, total development ³	742,086	119,228	620,762	0	2,096	0	0	0	0
Department of Energy	5,149	0	0	0	5,149	0	0	0	0
Department of Health & Human Svcs	107,304	4,591	14,736	0	78,612	0	8,170	0	1,195
Department of the Interior	14,725	13,649	28	0	922	0	0	0	126
Department of Transportation	3,492	0	359	0	0	0	0	0	3,133
Environmental Protection Agency	5,620	0	2,498	0	2,637	0	0	0	485
National Aeronautics and Space Admin	70,804	5,452	43,178	0	20,867	0	1,307	0	0
National Science Foundation	90,766	0	1,449	0	50,810	38,247	260	0	0
Arkansas, total	106,422	46,122	1,749	0	51,873	0	3,912	0	2,766
Department of Agriculture	32,730	18,102	0	0	14,603	0	0	0	25
Department of Defense, research ²	845	4	0	0	841	0	0	0	0
Department of Defense, total development ³	703	196	457	0	50	0	0	0	0
Department of Energy	100	0	0	0	100	0	0	0	0
Department of Health & Human Svcs	53,824	22,570	599	0	26,774	0	3,873	0	8
Department of the Interior	5,467	5,250	3	0	176	0	0	0	38
Department of Transportation	2,695	0	0	0	0	0	0	0	2,695
Environmental Protection Agency	639	0	0	0	600	0	39	0	0
National Aeronautics and Space Admin	1,400	0	204	0	1,196	0	0	0	0
National Science Foundation	8,019	0	486	0	7,533	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

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[Dollars in thousands]

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California, total	15,600,123	1,749,647	8,747,014	14,327	2,069,206	2,290,375	577,895	132,236	19,423
Department of Agriculture	96,666	67,373	33	0	27,567	0	1,659	0	34
Department of Commerce	83,792	19,177	54,990	0	8,298	0	842	0	485
Department of Defense, research ²	636,917	139,145	258,909	0	192,847	11,465	19,689	14,741	121
Department of Defense, total development ³	8,614,987	1,184,501	7,256,022	1,426	35,064	37,892	2,889	97,193	0
Department of Energy	1,126,603	10,310	56,417	12,901	101,785	930,834	14,356	0	0
Department of Health & Human Svcs	1,728,128	6,347	91,175	0	1,157,925	27,624	428,937	14,987	1,133
Department of the Interior	40,721	31,731	1,778	0	6,427	0	112	0	673
Department of Transportation	37,903	1,959	15,802	0	4,389	0	1,928	0	13,825
Environmental Protection Agency	33,478	0	9,395	0	21,625	0	703	0	1,755
National Aeronautics and Space Admin	2,829,708	288,866	989,522	0	168,470	1,282,455	93,828	5,170	1,397
National Science Foundation	371,220	238	12,971	0	344,809	105	12,952	145	0
Colorado, total	1,438,682	238,003	622,424	0	299,380	77,480	61,389	133,433	6,573
Department of Agriculture	29,723	20,880	0	0	8,756	0	87	0	0
Department of Commerce	91,297	79,820	2,929	0	8,548	0	0	0	0
Department of Defense, research ²	102,374	3,314	82,468	0	15,091	392	1,102	0	7
Department of Defense, total development ³	474,536	48,578	420,024	0	2,224	2,145	1,515	50	0
Department of Energy	152,465	3,364	2,588	0	9,889	0	3,201	133,383	40
Department of Health & Human Svcs	219,109	16,658	8,183	0	154,008	0	38,783	0	1,477
Department of the Interior	56,598	51,820	308	0	3,917	0	214	0	339
Department of Transportation	26,038	4,119	17,117	0	725	0	0	0	4,077
Environmental Protection Agency	11,982	0	633	0	2,153	0	8,796	0	400
National Aeronautics and Space Admin	147,246	9,274	79,876	0	49,087	2,497	6,437	0	75
National Science Foundation	127,314	176	8,298	0	44,982	72,446	1,254	0	158
Connecticut, total	655,191	17,883	309,035	0	305,015	0	16,219	0	7,039
Department of Agriculture	7,589	2,532	0	0	3,523	0	0	0	1,534
Department of Commerce	9,302	1,388	5,681	0	2,233	0	0	0	0
Department of Defense, research ²	20,688	647	11,254	0	7,181	0	1,606	0	0
Department of Defense, total development ³	163,401	2,973	159,207	0	524	0	697	0	0
Department of Energy	50,895	0	40,087	0	10,808	0	0	0	0
Department of Health & Human Svcs	281,829	30	11,997	0	253,378	0	13,916	0	2,508
Department of the Interior	1,406	1,113	17	0	241	0	0	0	35
Department of Transportation	15,915	9,200	3,809	0	24	0	0	0	2,882
Environmental Protection Agency	934	0	660	0	194	0	0	0	80
National Aeronautics and Space Admin	76,266	0	73,825	0	2,441	0	0	0	0
National Science Foundation	26,966	0	2,498	0	24,468	0	0	0	0
Delaware, total	52,255	2,747	10,662	0	34,655	0	2,880	0	1,311
Department of Agriculture	5,258	1,464	0	0	3,775	0	0	0	19
Department of Commerce	2,304	817	226	0	1,261	0	0	0	0
Department of Defense, research ²	11,252	231	4,987	0	5,935	0	99	0	0
Department of Defense, total development ³	2,289	0	2,289	0	0	0	0	0	0
Department of Energy	2,046	0	84	0	1,962	0	0	0	0
Department of Health & Human Svcs	9,029	6	1,691	0	6,475	0	677	0	180
Department of the Interior	504	222	0	0	252	0	0	0	30
Department of Transportation	1,465	7	89	0	287	0	0	0	1,082
Environmental Protection Agency	874	0	0	0	874	0	0	0	0
National Aeronautics and Space Admin	4,256	0	1,096	0	2,125	0	1,035	0	0
National Science Foundation	12,978	0	200	0	11,709	0	1,069	0	0

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District of Columbia, total	2,451,606	1,912,131	175,078	0	157,232	0	202,661	159	4,345
Department of Agriculture	174,269	158,047	14,615	0	1,033	0	574	0	0
Department of Commerce	16,630	15,072	82	0	825	0	651	0	0
Department of Defense, research ²	284,314	247,625	19,327	0	13,017	0	2,407	159	1,779
Department of Defense, total development ³	802,949	715,420	68,917	0	14,899	0	3,713	0	0
Department of Energy	422,461	406,447	2,225	0	1,372	0	12,417	0	0
Department of Health & Human Svcs	233,954	47,743	16,208	0	101,512	0	68,421	0	70
Department of the Interior	2,678	2,165	173	0	190	0	150	0	0
Department of Transportation	168,268	106,614	42,483	0	10,567	0	7,714	0	890
Environmental Protection Agency	59,829	42,241	5,580	0	501	0	10,251	0	1,256
National Aeronautics and Space Admin	208,128	167,534	4,842	0	7,177	0	28,225	0	350
National Science Foundation	78,126	3,223	626	0	6,139	0	68,138	0	0
Florida, total	2,284,405	763,344	1,160,539	0	331,613	0	16,258	0	12,651
Department of Agriculture	41,040	28,152	0	0	12,880	0	0	0	8
Department of Commerce	38,426	27,517	2,284	0	7,975	0	61	0	589
Department of Defense, research ²	108,231	44,673	29,593	0	32,684	0	1,129	0	152
Department of Defense, total development ³	1,385,084	415,084	962,500	0	4,480	0	20	0	3,000
Department of Energy	13,064	0	38	0	12,484	0	542	0	0
Department of Health & Human Svcs	185,551	30	7,195	0	167,963	0	10,032	0	331
Department of the Interior	23,259	21,212	205	0	1,731	0	0	0	111
Department of Transportation	9,765	1,170	1,035	0	535	0	0	0	7,025
Environmental Protection Agency	10,468	6,336	765	0	2,249	0	68	0	1,050
National Aeronautics and Space Admin	398,526	219,165	156,161	0	22,273	0	542	0	385
National Science Foundation	70,991	5	763	0	66,359	0	3,864	0	0
Georgia, total	2,023,240	278,552	1,421,682	0	301,009	0	14,542	0	7,455
Department of Agriculture	54,619	40,618	0	0	13,981	0	0	0	20
Department of Commerce	3,794	541	2,000	0	781	0	460	0	12
Department of Defense, research ²	43,838	5,332	14,285	0	21,814	0	2,405	0	2
Department of Defense, total development ³	1,459,960	52,425	1,394,000	0	12,217	0	1,318	0	0
Department of Energy	12,347	0	0	0	7,395	0	4,952	0	0
Department of Health & Human Svcs	354,325	158,556	3,294	0	188,235	0	3,926	0	314
Department of the Interior	10,189	9,465	63	0	581	0	0	0	80
Department of Transportation	6,479	283	411	0	383	0	0	0	5,402
Environmental Protection Agency	13,092	8,448	1,302	0	3,342	0	0	0	0
National Aeronautics and Space Admin	20,674	2,884	5,622	0	10,687	0	1,481	0	0
National Science Foundation	43,923	0	705	0	41,593	0	0	0	1,625
Hawaii, total	198,808	64,534	50,602	0	58,826	0	21,895	0	2,951
Department of Agriculture	20,228	11,398	0	0	3,461	0	5,364	0	5
Department of Commerce	15,068	10,605	0	0	3,798	0	560	0	105
Department of Defense, research ²	18,011	5,373	8,026	0	2,919	0	0	0	1,693
Department of Defense, total development ³	67,403	30,412	36,859	0	132	0	0	0	0
Department of Energy	2,984	0	0	0	2,821	0	163	0	0
Department of Health & Human Svcs	28,991	12	4,947	0	19,825	0	3,894	0	313
Department of the Interior	6,605	6,134	18	0	450	0	3	0	0
Department of Transportation	835	0	0	0	0	0	0	0	835
National Aeronautics and Space Admin	18,860	507	477	0	6,115	0	11,761	0	0
National Science Foundation	19,823	93	275	0	19,305	0	150	0	0

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Idaho, total	200,672	27,448	58,849	91,483	20,977	0	279	0	1,636
Department of Agriculture	19,566	14,418	0	0	5,148	0	0	0	0
Department of Commerce	1,403	1,328	0	0	0	0	75	0	0
Department of Defense, research ²	2,575	189	44	497	1,845	0	0	0	0
Department of Defense, total development ³	9,104	670	8,018	316	100	0	0	0	0
Department of Energy	143,078	0	49,562	90,360	3,156	0	0	0	0
Department of Health & Human Svcs	3,718	0	850	0	2,509	0	204	0	155
Department of the Interior	11,862	9,968	13	0	1,723	0	0	0	158
Department of Transportation	1,724	401	0	0	0	0	0	0	1,323
Environmental Protection Agency	594	0	0	0	594	0	0	0	0
National Aeronautics and Space Admin	1,552	474	362	310	406	0	0	0	0
National Science Foundation	5,496	0	0	0	5,496	0	0	0	0
Illinois, total	1,316,085	77,055	124,253	0	587,341	450,934	68,009	0	8,493
Department of Agriculture	46,049	34,964	3	0	10,740	0	70	0	272
Department of Commerce	4,953	208	3,123	0	557	105	400	0	560
Department of Defense, research ²	56,628	9,414	7,593	0	36,467	2,777	377	0	0
Department of Defense, total development ³	71,643	21,650	38,671	0	8,682	2,183	457	0	0
Department of Energy	499,681	3,624	7,496	0	42,885	445,343	333	0	0
Department of Health & Human Svcs	461,202	173	50,028	0	346,925	0	61,995	0	2,081
Department of the Interior	7,257	6,341	0	0	661	0	10	0	245
Department of Transportation	13,249	104	6,042	0	1,857	101	0	0	5,145
Environmental Protection Agency	6,146	0	4,353	0	1,793	0	0	0	0
National Aeronautics and Space Admin	17,256	577	4,956	0	10,187	416	930	0	190
National Science Foundation	132,021	0	1,988	0	126,587	9	3,437	0	0
Indiana, total	413,864	54,903	147,381	0	205,001	0	2,030	0	4,549
Department of Agriculture	17,845	5,784	0	0	12,022	0	0	0	39
Department of Commerce	1,902	103	773	0	1,026	0	0	0	0
Department of Defense, research ²	32,730	4,659	14,277	0	12,339	0	1,455	0	0
Department of Defense, total development ³	158,209	36,830	121,148	0	231	0	0	0	0
Department of Energy	16,533	0	190	0	16,343	0	0	0	0
Department of Health & Human Svcs	116,659	159	4,380	0	111,592	0	373	0	155
Department of the Interior	5,138	4,902	25	0	101	0	0	0	110
Department of Transportation	5,854	1,472	30	0	107	0	0	0	4,245
Environmental Protection Agency	645	0	153	0	492	0	0	0	0
National Aeronautics and Space Admin	10,689	994	6,212	0	3,281	0	202	0	0
National Science Foundation	47,660	0	193	0	47,467	0	0	0	0
Iowa, total	264,060	39,213	17,091	0	179,955	20,499	3,888	0	3,414
Department of Agriculture	48,606	31,751	0	0	16,820	0	35	0	0
Department of Commerce	226	0	206	0	20	0	0	0	0
Department of Defense, research ²	7,684	0	2,882	0	4,722	80	0	0	0
Department of Defense, total development ³	13,186	1,329	11,136	0	721	0	0	0	0
Department of Energy	27,638	0	45	0	5,094	20,419	2,080	0	0
Department of Health & Human Svcs	129,573	27	903	0	126,405	0	1,773	0	465
Department of the Interior	6,280	6,106	0	0	113	0	0	0	61
Department of Transportation	3,660	0	210	0	562	0	0	0	2,888
Environmental Protection Agency	896	0	70	0	826	0	0	0	0
National Aeronautics and Space Admin	10,624	0	1,639	0	8,985	0	0	0	0
National Science Foundation	15,687	0	0	0	15,687	0	0	0	0

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Kansas, total	191,603	35,743	68,276	0	82,240	0	1,334	0	4,010
Department of Agriculture	16,650	8,985	0	0	7,665	0	0	0	0
Department of Commerce	524	92	0	0	7	0	425	0	0
Department of Defense, research ²	6,099	400	195	0	5,504	0	0	0	0
Department of Defense, total development ³	49,547	17,189	32,176	0	182	0	0	0	0
Department of Energy	4,405	0	75	0	4,330	0	0	0	0
Department of Health & Human Svcs	80,015	649	34,913	0	42,401	0	711	0	1,341
Department of the Interior	8,587	8,428	14	0	95	0	0	0	50
Department of Transportation	2,647	0	50	0	151	0	0	0	2,446
Environmental Protection Agency	2,542	0	0	0	2,244	0	125	0	173
National Aeronautics and Space Admin	5,111	0	853	0	4,185	0	73	0	0
National Science Foundation	15,476	0	0	0	15,476	0	0	0	0
Kentucky, total	146,845	9,146	43,799	0	87,343	0	627	0	5,930
Department of Agriculture	9,136	6	0	0	9,130	0	0	0	0
Department of Commerce	364	64	6	0	0	0	0	0	294
Department of Defense, research ²	4,245	1,116	1,249	0	1,880	0	0	0	0
Department of Defense, total development ³	7,815	3,962	3,684	0	169	0	0	0	0
Department of Energy	3,715	0	0	0	3,715	0	0	0	0
Department of Health & Human Svcs	97,365	13	37,279	0	58,046	0	436	0	1,591
Department of the Interior	4,220	3,985	10	0	125	0	0	0	100
Department of Transportation	4,906	0	1,011	0	0	0	0	0	3,895
Environmental Protection Agency	451	0	37	0	244	0	120	0	50
National Aeronautics and Space Admin	1,573	0	123	0	1,379	0	71	0	0
National Science Foundation	13,055	0	400	0	12,655	0	0	0	0
Louisiana, total	219,218	58,976	11,039	0	137,798	0	4,058	0	7,347
Department of Agriculture	42,559	32,625	0	0	9,894	0	40	0	0
Department of Commerce	6,004	3,965	56	0	1,483	0	0	0	500
Department of Defense, research ²	18,369	732	261	0	17,190	0	186	0	0
Department of Defense, total development ³	16,489	2,061	6,173	0	7,284	0	971	0	0
Department of Energy	6,464	0	75	0	6,389	0	0	0	0
Department of Health & Human Svcs	78,323	3,981	100	0	71,396	0	2,846	0	0
Department of the Interior	18,905	15,563	768	0	2,508	0	15	0	51
Department of Transportation	3,166	0	50	0	40	0	0	0	3,076
Environmental Protection Agency	6,420	0	0	0	6,420	0	0	0	0
National Aeronautics and Space Admin	9,020	49	3,156	0	3,815	0	0	0	2,000
National Science Foundation	13,499	0	400	0	11,379	0	0	0	1,720
Maine, total	150,569	4,975	87,469	0	20,451	0	35,172	0	2,502
Department of Agriculture	4,615	1	0	0	4,559	0	0	0	55
Department of Commerce	2,158	479	0	0	1,023	0	656	0	0
Department of Defense, research ²	11,566	52	5,354	0	5,636	0	524	0	0
Department of Defense, total development ³	77,843	145	77,639	0	59	0	0	0	0
Department of Energy	1,394	0	0	0	85	0	559	0	750
Department of Health & Human Svcs	36,097	12	3,625	0	1,734	0	30,212	0	514
Department of the Interior	4,896	4,246	16	0	588	0	0	0	46
Department of Transportation	1,306	0	50	0	600	0	0	0	656
Environmental Protection Agency	224	0	224	0	0	0	0	0	0
National Aeronautics and Space Admin	2,883	40	63	0	1,048	0	1,251	0	481
National Science Foundation	7,587	0	498	0	5,119	0	1,970	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-85. Federal obligations for research and development, by State, selected agency, and performer: fiscal year 1999

[Dollars in thousands]

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State and agency	Total	Intra-mural ¹	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Maryland, total	8,094,369	4,814,517	2,042,833	152,395	892,533	700	184,657	879	5,855
Department of Agriculture	144,063	135,102	386	0	8,500	0	37	0	38
Department of Commerce	352,899	339,632	4,935	0	7,645	0	687	0	0
Department of Defense, research ²	413,281	258,987	107,475	0	39,646	0	5,256	88	1,829
Department of Defense, total development ³	2,163,048	1,034,074	914,805	0	201,200	700	11,424	791	54
Department of Energy	51,098	25,724	4,701	0	9,932	0	10,741	0	0
Department of Health & Human Svcs	3,502,254	2,593,742	275,317	152,395	434,405	0	45,847	0	548
Department of the Interior	16,501	15,883	135	0	427	0	0	0	56
Department of Transportation	37,969	10,026	20,353	0	4,347	0	110	0	3,133
Environmental Protection Agency	12,138	0	5,521	0	6,110	0	507	0	0
National Aeronautics and Space Admin	1,326,768	391,822	705,614	0	131,214	0	97,921	0	197
National Science Foundation	74,350	9,525	3,591	0	49,107	0	12,127	0	0
Massachusetts, total	3,129,401	240,059	925,914	468	894,594	183,211	804,838	75,151	5,166
Department of Agriculture	27,209	17,053	3,085	0	6,745	0	303	0	23
Department of Commerce	41,887	28,390	8,417	0	5,080	0	0	0	0
Department of Defense, research ²	278,166	44,892	80,514	0	92,481	43,528	16,272	479	0
Department of Defense, total development ³	1,001,682	102,361	648,022	468	17,395	139,683	19,081	74,672	0
Department of Energy	94,536	0	14,770	0	77,028	0	2,738	0	0
Department of Health & Human Svcs	1,308,083	1,374	115,747	0	492,266	0	697,324	0	1,372
Department of the Interior	5,935	4,519	191	0	1,202	0	23	0	0
Department of Transportation	44,697	30,177	9,409	0	1,340	0	0	0	3,771
Environmental Protection Agency	9,985	0	3,123	0	6,727	0	135	0	0
National Aeronautics and Space Admin	140,212	10,259	27,551	0	43,498	0	58,904	0	0
National Science Foundation	177,009	1,034	15,085	0	150,832	0	10,058	0	0
Michigan, total	839,757	149,473	166,114	0	502,219	0	15,694	0	6,257
Department of Agriculture	22,717	6,602	0	0	16,115	0	0	0	0
Department of Commerce	25,046	7,213	15,102	0	2,199	0	532	0	0
Department of Defense, research ²	70,292	19,815	22,473	0	27,644	0	360	0	0
Department of Defense, total development ³	181,923	102,134	67,232	0	7,986	0	4,566	0	5
Department of Energy	19,669	0	0	0	19,669	0	0	0	0
Department of Health & Human Svcs	349,571	687	21,577	0	320,038	0	6,417	0	852
Department of the Interior	13,480	13,017	7	0	345	0	0	0	111
Department of Transportation	12,039	5	4,381	0	2,364	0	0	0	5,289
Environmental Protection Agency	28,364	0	19,437	0	6,627	0	2,300	0	0
National Aeronautics and Space Admin	22,259	0	14,037	0	8,158	0	64	0	0
National Science Foundation	94,397	0	1,868	0	91,074	0	1,455	0	0
Minnesota, total	885,141	37,878	510,161	0	218,542	0	111,982	0	6,578
Department of Agriculture	25,601	15,832	0	0	9,270	0	286	0	213
Department of Commerce	7,493	305	5,113	0	993	0	1,082	0	0
Department of Defense, research ²	36,067	406	23,667	0	7,959	0	4,035	0	0
Department of Defense, total development ³	480,746	287	456,363	0	3,949	0	20,147	0	0
Department of Energy	8,056	0	0	0	8,053	0	3	0	0
Department of Health & Human Svcs	242,895	636	4,208	0	150,381	0	85,831	0	1,839
Department of the Interior	10,299	9,794	8	0	431	0	0	0	66
Department of Transportation	17,914	8	13,928	0	300	0	0	0	3,678
Environmental Protection Agency	13,428	10,560	1,074	0	1,012	0	0	0	782
National Aeronautics and Space Admin	7,622	50	4,402	0	3,170	0	0	0	0
National Science Foundation	35,020	0	1,398	0	33,024	0	598	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-85. Federal obligations for research and development, by State, selected agency, and performer: fiscal year 1999

[Dollars in thousands]

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State and agency	Total	Intra-mural ¹	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Mississippi, total	351,571	196,245	77,026	0	69,270	0	5,760	0	3,270
Department of Agriculture	71,827	49,899	0	0	20,885	0	1,043	0	0
Department of Commerce	10,297	9,727	0	0	421	0	149	0	0
Department of Defense, research ²	51,783	39,047	3,554	0	9,179	0	0	0	3
Department of Defense, total development ³	103,810	63,582	37,994	0	2,230	0	0	0	4
Department of Energy	1,723	0	86	0	1,637	0	0	0	0
Department of Health & Human Svcs	14,848	0	215	0	14,633	0	0	0	0
Department of the Interior	8,010	7,157	111	0	112	0	570	0	60
Department of Transportation	3,088	0	0	0	110	0	0	0	2,978
Environmental Protection Agency	640	0	460	0	180	0	0	0	0
National Aeronautics and Space Admin	73,750	26,833	34,356	0	8,338	0	3,998	0	225
National Science Foundation	11,795	0	250	0	11,545	0	0	0	0
Missouri, total	928,681	48,097	504,220	0	346,973	0	24,499	0	4,892
Department of Agriculture	24,470	10,957	0	0	13,424	0	0	0	89
Department of Commerce	237	28	150	0	59	0	0	0	0
Department of Defense, research ²	36,928	1,992	27,359	0	7,576	0	0	0	1
Department of Defense, total development ³	485,284	17,403	466,828	0	1,048	0	0	0	5
Department of Energy	4,601	0	130	0	4,198	0	273	0	0
Department of Health & Human Svcs	309,316	559	2,095	0	282,022	0	23,463	0	1,177
Department of the Interior	18,557	17,116	317	0	1,021	0	0	0	103
Department of Transportation	3,896	6	189	0	0	0	184	0	3,517
Environmental Protection Agency	8,049	0	0	0	8,049	0	0	0	0
National Aeronautics and Space Admin	12,266	36	7,052	0	4,864	0	314	0	0
National Science Foundation	25,077	0	100	0	24,712	0	265	0	0
Montana, total	95,446	42,816	5,048	0	35,474	0	8,335	0	3,773
Department of Agriculture	21,612	13,007	24	0	7,281	0	1,300	0	0
Department of Commerce	365	65	0	0	300	0	0	0	0
Department of Defense, research ²	3,190	66	253	0	2,871	0	0	0	0
Department of Defense, total development ³	2,653	6	1,741	0	906	0	0	0	0
Department of Energy	1,120	0	249	0	259	0	583	0	29
Department of Health & Human Svcs	26,044	13,321	1,247	0	8,983	0	2,173	0	320
Department of the Interior	17,493	16,263	22	0	1,066	0	0	0	142
Department of Transportation	2,455	0	23	0	50	0	0	0	2,382
Environmental Protection Agency	2,422	0	70	0	1,484	0	868	0	0
National Aeronautics and Space Admin	5,420	88	713	0	2,579	0	1,140	0	900
National Science Foundation	12,672	0	706	0	9,695	0	2,271	0	0
Nebraska, total	94,089	28,769	2,807	0	55,713	0	5,210	0	1,590
Department of Agriculture	29,750	21,128	0	0	8,622	0	0	0	0
Department of Commerce	650	114	0	0	12	0	524	0	0
Department of Defense, research ²	3,636	0	652	0	2,984	0	0	0	0
Department of Defense, total development ³	1,494	263	1,231	0	0	0	0	0	0
Department of Energy	939	0	0	0	939	0	0	0	0
Department of Health & Human Svcs	34,480	12	384	0	29,254	0	4,536	0	294
Department of the Interior	7,556	7,252	0	0	81	0	120	0	103
Department of Transportation	1,238	0	45	0	0	0	0	0	1,193
Environmental Protection Agency	300	0	0	0	270	0	30	0	0
National Aeronautics and Space Admin	2,148	0	77	0	2,071	0	0	0	0
National Science Foundation	11,898	0	418	0	11,480	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-85. Federal obligations for research and development, by State, selected agency, and performer: fiscal year 1999

[Dollars in thousands]

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State and agency	Total	Intra-mural ¹	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Nevada, total	279,129	27,843	219,650	0	28,387	0	1,437	0	1,812
Department of Agriculture	3,229	423	0	0	2,788	0	18	0	0
Department of Commerce	282	0	4	0	278	0	0	0	0
Department of Defense, research ²	6,927	3,470	1,607	0	1,850	0	0	0	0
Department of Defense, total development ³	9,284	2,667	6,567	0	50	0	0	0	0
Department of Energy	202,151	85	199,116	0	2,687	0	263	0	0
Department of Health & Human Svcs	15,502	0	4,121	0	9,887	0	1,156	0	338
Department of the Interior	11,592	10,303	0	0	1,173	0	0	0	116
Department of Transportation	6,893	0	4,579	0	1,000	0	0	0	1,314
Environmental Protection Agency	12,967	10,560	1,863	0	500	0	0	0	44
National Aeronautics and Space Admin	2,703	335	1,713	0	655	0	0	0	0
National Science Foundation	7,599	0	80	0	7,519	0	0	0	0
New Hampshire, total	291,723	28,353	178,325	0	80,232	0	1,718	0	3,095
Department of Agriculture	5,237	2,625	0	0	2,592	0	3	0	17
Department of Commerce	8,998	2,863	711	0	5,424	0	0	0	0
Department of Defense, research ²	48,874	8,211	36,279	0	2,763	0	354	0	1,267
Department of Defense, total development ³	143,748	11,254	130,999	0	335	0	1,160	0	0
Department of Energy	620	0	0	0	620	0	0	0	0
Department of Health & Human Svcs	48,007	6	3,117	0	43,955	0	102	0	827
Department of the Interior	2,045	1,890	0	0	95	0	0	0	60
Department of Transportation	3,237	0	342	0	1,971	0	0	0	924
Environmental Protection Agency	1,000	0	70	0	930	0	0	0	0
National Aeronautics and Space Admin	16,032	296	6,115	0	9,522	0	99	0	0
National Science Foundation	13,925	1,208	692	0	12,025	0	0	0	0
New Jersey, total	2,661,153	486,722	1,877,394	0	229,536	40,322	15,666	5,624	5,889
Department of Agriculture	6,938	8	0	0	6,919	0	0	0	11
Department of Commerce	30,325	19,517	6,922	0	3,886	0	0	0	0
Department of Defense, research ²	119,371	57,760	41,180	0	20,184	80	165	0	2
Department of Defense, total development ³	2,133,947	377,951	1,746,573	0	3,746	0	0	5,624	53
Department of Energy	61,543	0	5,917	0	15,355	39,914	357	0	0
Department of Health & Human Svcs	148,077	301	20,324	0	114,686	0	11,760	0	1,006
Department of the Interior	4,457	4,072	100	0	174	0	0	0	111
Department of Transportation	53,082	24,713	22,303	0	1,360	0	0	0	4,706
Environmental Protection Agency	4,443	0	211	0	1,453	0	2,779	0	0
National Aeronautics and Space Admin	44,530	2,400	32,059	0	9,648	0	423	0	0
National Science Foundation	54,440	0	1,805	0	52,125	328	182	0	0
New Mexico, total	2,068,291	409,886	168,267	696,216	106,169	659,753	23,427	0	4,573
Department of Agriculture	8,267	4,019	26	0	4,089	0	133	0	0
Department of Commerce	971	0	805	0	164	2	0	0	0
Department of Defense, research ²	131,702	77,110	34,386	9,499	8,326	2,001	380	0	0
Department of Defense, total development ³	486,819	284,102	120,070	55,288	9,310	15,599	0	0	2,450
Department of Energy	1,301,704	7,615	1,061	631,029	15,794	631,471	14,734	0	0
Department of Health & Human Svcs	56,807	2,892	2,630	0	38,575	9,157	3,398	0	155
Department of the Interior	12,496	11,361	67	0	940	0	0	0	128
Department of Transportation	7,923	4,465	0	400	528	900	0	0	1,630
Environmental Protection Agency	4,042	0	503	0	145	0	3,184	0	210
National Aeronautics and Space Admin	42,521	18,089	7,264	0	16,179	583	406	0	0
National Science Foundation	15,039	233	1,455	0	12,119	40	1,192	0	0

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Table C-85. Federal obligations for research and development, by State, selected agency, and performer: fiscal year 1999

[Dollars in thousands]

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State and agency	Total	Intra-mural ¹	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
New York, total	2,689,016	132,848	726,623	0	1,226,895	104	274,887	248,758	78,901
Department of Agriculture	37,599	18,601	0	0	16,995	0	1,876	0	127
Department of Commerce	20,689	877	12,571	0	6,256	0	502	3	480
Department of Defense, research ²	136,318	51,480	33,323	0	49,192	104	2,024	189	6
Department of Defense, total development ³	412,924	35,040	363,890	0	10,398	0	1,132	2,464	0
Department of Energy	572,163	1,230	263,190	0	62,521	0	2,659	242,563	0
Department of Health & Human Svcs	1,219,299	8,120	26,131	0	868,400	0	246,346	347	69,955
Department of the Interior	9,801	8,603	46	0	1,085	0	0	0	67
Department of Transportation	12,482	0	3,794	0	1,992	0	0	0	6,696
Environmental Protection Agency	12,437	0	2,859	0	5,070	0	4,508	0	0
National Aeronautics and Space Admin	64,242	8,897	17,676	0	28,083	0	7,001	2,585	0
National Science Foundation	191,062	0	3,143	0	176,903	0	8,839	607	1,570
North Carolina, total	1,007,518	230,780	135,448	0	564,348	0	71,752	0	5,190
Department of Agriculture	40,158	20,226	0	0	19,845	0	87	0	0
Department of Commerce	12,707	3,121	5,696	0	3,723	0	167	0	0
Department of Defense, research ²	63,190	16,703	11,674	0	32,832	0	1,882	0	99
Department of Defense, total development ³	73,657	22,522	44,959	0	6,018	0	158	0	0
Department of Energy	16,301	351	0	0	14,250	0	1,700	0	0
Department of Health & Human Svcs	607,636	93,506	29,378	0	423,313	0	61,403	0	36
Department of the Interior	8,740	6,695	1,652	0	205	0	69	0	119
Department of Transportation	6,524	0	80	0	1,508	0	0	0	4,936
Environmental Protection Agency	116,893	67,586	39,011	0	6,552	0	3,744	0	0
National Aeronautics and Space Admin	12,977	70	2,265	0	8,497	0	2,145	0	0
National Science Foundation	48,735	0	733	0	47,605	0	397	0	0
North Dakota, total	59,947	30,561	1,592	0	25,538	0	920	0	1,336
Department of Agriculture	28,349	21,823	0	0	6,526	0	0	0	0
Department of Commerce	508	168	0	0	340	0	0	0	0
Department of Defense, research ²	2,718	0	0	0	2,718	0	0	0	0
Department of Defense, total development ³	1,102	130	972	0	0	0	0	0	0
Department of Energy	6,027	0	547	0	5,480	0	0	0	0
Department of Health & Human Svcs	5,482	12	0	0	4,378	0	920	0	172
Department of the Interior	8,525	8,428	3	0	68	0	0	0	26
Department of Transportation	1,138	0	0	0	0	0	0	0	1,138
Environmental Protection Agency	292	0	70	0	222	0	0	0	0
National Aeronautics and Space Admin	1,794	0	0	0	1,794	0	0	0	0
National Science Foundation	4,012	0	0	0	4,012	0	0	0	0
Ohio, total	3,687,855	604,957	2,544,092	0	399,175	46	132,489	0	7,096
Department of Agriculture	17,014	7,330	0	0	9,321	0	350	0	13
Department of Commerce	6,617	114	4,732	0	1,112	0	134	0	525
Department of Defense, research ²	260,222	148,441	67,061	0	31,839	46	12,658	0	177
Department of Defense, total development ³	2,387,168	126,617	2,245,315	0	8,780	0	6,456	0	0
Department of Energy	18,047	0	7,891	0	9,872	0	284	0	0
Department of Health & Human Svcs	415,955	43,058	10,217	0	275,842	0	86,156	0	682
Department of the Interior	6,551	6,057	11	0	379	0	0	0	104
Department of Transportation	19,283	8,448	1,223	0	2,135	0	3,000	0	4,477
Environmental Protection Agency	57,969	40,129	8,699	0	2,329	0	6,573	0	239
National Aeronautics and Space Admin	452,980	224,763	195,651	0	15,209	0	16,478	0	879
National Science Foundation	46,049	0	3,292	0	42,357	0	400	0	0

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Table C-85. Federal obligations for research and development, by State, selected agency, and performer: fiscal year 1999

[Dollars in thousands]

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State and agency	Total	Intra-mural ¹	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Oklahoma, total	165,818	45,912	39,049	0	63,265	0	14,697	0	2,895
Department of Agriculture	19,546	11,034	0	0	8,512	0	0	0	0
Department of Commerce	7,153	6,856	7	0	290	0	0	0	0
Department of Defense, research ²	8,657	272	5,579	0	2,806	0	0	0	0
Department of Defense, total development ³	21,080	5,099	15,921	0	60	0	0	0	0
Department of Energy	18,088	1,532	8,972	0	6,053	0	1,531	0	0
Department of Health & Human Svcs	40,886	15	539	0	27,378	0	12,565	0	389
Department of the Interior	7,208	6,893	0	0	243	0	0	0	72
Department of Transportation	14,269	7,619	3,997	0	219	0	0	0	2,434
Environmental Protection Agency	12,158	6,336	3,436	0	2,386	0	0	0	0
National Aeronautics and Space Admin	2,683	256	266	0	2,111	0	50	0	0
National Science Foundation	14,090	0	332	0	13,207	0	551	0	0
Oregon, total	408,099	89,369	86,604	0	199,159	0	24,998	0	7,969
Department of Agriculture	37,894	25,221	0	0	12,673	0	0	0	0
Department of Commerce	16,365	12,653	952	0	2,315	0	0	0	445
Department of Defense, research ²	25,877	0	14,697	0	11,180	0	0	0	0
Department of Defense, total development ³	2,272	267	736	0	1,264	0	5	0	0
Department of Energy	37,184	24,687	6,458	0	3,441	0	98	0	2,500
Department of Health & Human Svcs	208,109	32	53,342	0	127,897	0	24,676	0	2,162
Department of the Interior	16,731	15,872	19	0	650	0	0	0	190
Department of Transportation	2,796	0	91	0	468	0	0	0	2,237
Environmental Protection Agency	17,805	10,560	4,965	0	1,820	0	25	0	435
National Aeronautics and Space Admin	9,494	77	4,072	0	5,170	0	175	0	0
National Science Foundation	33,572	0	1,272	0	32,281	0	19	0	0
Pennsylvania, total	1,907,139	168,382	597,896	0	953,933	16,927	162,588	0	7,413
Department of Agriculture	46,744	35,745	0	0	10,728	0	206	0	65
Department of Commerce	4,803	243	2,502	0	938	0	520	0	600
Department of Defense, research ²	183,399	1,349	78,483	0	83,744	16,131	3,692	0	0
Department of Defense, total development ³	331,168	51,355	223,849	0	48,572	796	6,596	0	0
Department of Energy	327,308	43,365	256,812	0	23,545	0	3,586	0	0
Department of Health & Human Svcs	847,209	27,040	14,360	0	662,996	0	141,972	0	841
Department of the Interior	8,188	7,534	109	0	470	0	0	0	75
Department of Transportation	10,114	0	1,838	0	2,409	0	35	0	5,832
Environmental Protection Agency	5,718	0	437	0	3,580	0	1,701	0	0
National Aeronautics and Space Admin	39,333	1,751	18,277	0	16,856	0	2,449	0	0
National Science Foundation	103,155	0	1,229	0	100,095	0	1,831	0	0
Rhode Island, total	391,717	232,701	55,254	0	68,546	0	33,570	0	1,646
Department of Agriculture	2,598	0	0	0	2,560	0	38	0	0
Department of Commerce	5,762	1,728	1,232	0	2,262	0	0	0	540
Department of Defense, research ²	32,359	21,122	2,694	0	8,438	0	105	0	0
Department of Defense, total development ³	246,499	199,810	46,559	0	130	0	0	0	0
Department of Energy	2,716	0	0	0	2,678	0	38	0	0
Department of Health & Human Svcs	61,896	15	2,049	0	28,694	0	30,790	0	348
Department of the Interior	2,991	1,558	740	0	682	0	11	0	0
Department of Transportation	992	20	5	0	209	0	0	0	758
Environmental Protection Agency	10,245	8,448	1,584	0	213	0	0	0	0
National Aeronautics and Space Admin	3,818	0	391	0	2,841	0	586	0	0
National Science Foundation	21,841	0	0	0	19,839	0	2,002	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-85. Federal obligations for research and development, by State, selected agency, and performer: fiscal year 1999

[Dollars in thousands]

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State and agency	Total	Intra-mural ¹	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
South Carolina, total	215,941	45,050	30,369	28,771	108,437	0	1,461	5	1,848
Department of Agriculture	16,894	8,800	0	0	8,094	0	0	0	0
Department of Commerce	9,159	5,712	0	0	3,447	0	0	0	0
Department of Defense, research ²	12,738	3,078	517	0	9,122	0	21	0	0
Department of Defense, total development ³	50,436	21,603	24,945	0	3,206	0	682	0	0
Department of Energy	40,176	0	1,612	28,771	9,728	0	60	5	0
Department of Health & Human Svcs	56,180	21	3,086	0	51,496	0	589	0	988
Department of the Interior	4,907	4,570	46	0	189	0	0	0	102
Department of Transportation	1,165	0	64	0	343	0	0	0	758
Environmental Protection Agency	1,960	0	0	0	1,960	0	0	0	0
National Aeronautics and Space Admin	3,156	1,266	0	0	1,890	0	0	0	0
National Science Foundation	19,170	0	99	0	18,962	0	109	0	0
South Dakota, total	38,951	20,709	6,221	0	10,614	0	370	0	1,037
Department of Agriculture	7,265	3,899	0	0	3,366	0	0	0	0
Department of Commerce	608	108	0	0	500	0	0	0	0
Department of Defense, research ²	709	50	55	0	604	0	0	0	0
Department of Defense, total development ³	676	570	56	0	50	0	0	0	0
Department of Energy	50	0	0	0	50	0	0	0	0
Department of Health & Human Svcs	3,893	6	1,840	0	1,527	0	370	0	150
Department of the Interior	14,501	10,644	3,607	0	250	0	0	0	0
Department of Transportation	952	0	65	0	0	0	0	0	887
Environmental Protection Agency	432	0	0	0	432	0	0	0	0
National Aeronautics and Space Admin	6,561	5,432	0	0	1,129	0	0	0	0
National Science Foundation	3,304	0	598	0	2,706	0	0	0	0
Tennessee, total	684,712	64,783	53,727	319,899	201,458	7,527	34,036	0	3,282
Department of Agriculture	9,831	1	20	0	9,810	0	0	0	0
Department of Commerce	1,509	875	68	100	106	0	0	0	360
Department of Defense, research ²	18,123	2,136	3,812	3,607	8,473	0	0	0	95
Department of Defense, total development ³	61,885	45,808	11,607	3,546	905	5	0	0	14
Department of Energy	339,012	1,504	10,269	311,556	8,220	7,230	233	0	0
Department of Health & Human Svcs	190,482	1,543	4,585	0	150,319	292	33,743	0	0
Department of the Interior	7,024	5,652	241	0	894	0	0	0	237
Department of Transportation	6,732	1,919	1,517	450	270	0	0	0	2,576
Environmental Protection Agency	916	0	536	0	380	0	0	0	0
National Aeronautics and Space Admin	29,693	5,335	20,358	565	3,435	0	0	0	0
National Science Foundation	19,505	10	714	75	18,646	0	60	0	0
Texas, total	3,853,339	584,149	2,376,351	0	801,277	0	77,689	2,367	11,506
Department of Agriculture	72,661	52,942	0	0	19,608	0	11	0	100
Department of Commerce	9,309	2,370	3,695	0	2,750	0	494	0	0
Department of Defense, research ²	138,693	50,304	41,544	0	44,103	0	2,742	0	0
Department of Defense, total development ³	811,157	55,680	726,501	0	25,679	0	930	2,367	0
Department of Energy	24,310	0	1,003	0	22,904	0	70	0	333
Department of Health & Human Svcs	629,695	2,586	13,801	0	569,025	0	44,055	0	228
Department of the Interior	32,857	25,740	571	0	6,314	0	100	0	132
Department of Transportation	15,838	250	4,822	0	1,009	0	95	0	9,662
Environmental Protection Agency	24,166	0	12,355	0	8,502	0	2,824	0	485
National Aeronautics and Space Admin	2,017,403	394,277	1,569,236	0	27,930	0	25,394	0	566
National Science Foundation	77,250	0	2,823	0	73,453	0	974	0	0

See explanatory information, if any, and SOURCE at end of table.

Table C-85. Federal obligations for research and development, by State, selected agency, and performer: fiscal year 1999

[Dollars in thousands]

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State and agency	Total	Intra-mural ¹	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Utah, total	305,019	74,129	61,297	0	161,857	0	3,870	0	3,866
Department of Agriculture	15,977	9,204	0	0	6,663	0	0	0	110
Department of Commerce	1,931	88	1,227	0	211	0	405	0	0
Department of Defense, research ²	14,542	466	5,808	0	8,267	0	1	0	0
Department of Defense, total development ³	111,955	52,810	43,803	0	14,670	0	670	0	2
Department of Energy	7,806	0	960	0	6,546	0	0	0	300
Department of Health & Human Svcs	96,460	1,479	5,009	0	87,070	0	2,794	0	108
Department of the Interior	10,918	9,632	67	0	1,080	0	0	0	139
Department of Transportation	3,215	0	8	0	0	0	0	0	3,207
Environmental Protection Agency	808	0	0	0	808	0	0	0	0
National Aeronautics and Space Admin	15,846	450	3,375	0	12,021	0	0	0	0
National Science Foundation	25,561	0	1,040	0	24,521	0	0	0	0
Vermont, total	61,707	4,065	9,900	0	44,462	0	1,742	0	1,538
Department of Agriculture	6,495	1,737	0	0	4,744	0	0	0	14
Department of Commerce	423	83	0	0	340	0	0	0	0
Department of Defense, research ²	2,331	577	1,026	0	728	0	0	0	0
Department of Defense, total development ³	7,686	260	7,426	0	0	0	0	0	0
Department of Energy	917	0	372	0	545	0	0	0	0
Department of Health & Human Svcs	37,376	6	236	0	34,903	0	1,562	0	669
Department of the Interior	1,507	1,402	8	0	76	0	0	0	21
Department of Transportation	578	0	0	0	0	0	0	0	578
Environmental Protection Agency	561	0	0	0	125	0	180	0	256
National Aeronautics and Space Admin	625	0	482	0	143	0	0	0	0
National Science Foundation	3,208	0	350	0	2,858	0	0	0	0
Virginia, total	5,750,372	1,793,639	3,403,377	4,405	263,998	64,041	54,641	157,991	8,280
Department of Agriculture	10,374	784	226	0	9,364	0	0	0	0
Department of Commerce	25,272	16,463	6,451	0	2,009	0	349	0	0
Department of Defense, research ²	467,967	166,113	249,787	3,722	30,644	245	7,049	10,381	26
Department of Defense, total development ³	4,219,299	1,264,440	2,788,285	683	18,159	0	5,222	142,470	40
Department of Energy	81,649	4,123	4,363	0	6,791	63,796	2,576	0	0
Department of Health & Human Svcs	205,582	16,433	39,236	0	133,670	0	16,008	0	235
Department of the Interior	52,033	50,145	1,239	0	544	0	59	0	46
Department of Transportation	40,177	1,632	26,366	0	2,284	0	554	5,140	4,201
Environmental Protection Agency	21,295	0	16,625	0	905	0	3,765	0	0
National Aeronautics and Space Admin	568,633	268,320	263,168	0	21,057	0	12,625	0	3,463
National Science Foundation	58,091	5,186	7,631	0	38,571	0	6,434	0	269
Washington, total	1,306,757	191,104	367,398	0	416,548	0	175,105	151,148	5,454
Department of Agriculture	40,533	25,816	17	0	14,280	0	5	0	415
Department of Commerce	73,046	68,054	1,140	0	3,848	0	4	0	0
Department of Defense, research ²	46,025	5,986	15,348	0	22,739	0	908	1,020	24
Department of Defense, total development ³	338,863	67,756	260,955	0	4,177	0	296	5,674	5
Department of Energy	166,272	71	3,269	0	22,343	0	712	139,877	0
Department of Health & Human Svcs	478,741	9,064	23,570	0	273,678	0	166,187	4,297	1,945
Department of the Interior	13,524	10,383	14	0	2,871	0	0	0	256
Department of Transportation	6,735	406	3,483	0	394	0	15	0	2,437
Environmental Protection Agency	7,475	0	70	0	7,033	0	0	0	372
National Aeronautics and Space Admin	76,276	3,078	57,177	0	10,484	0	5,257	280	0
National Science Foundation	59,267	490	2,355	0	54,701	0	1,721	0	0

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Table C-85. Federal obligations for research and development, by State, selected agency, and performer: fiscal year 1999

[Dollars in thousands]

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State and agency	Total	Intra-mural ¹	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
West Virginia, total	227,023	116,330	42,758	0	28,307	33,132	4,726	0	1,770
Department of Agriculture	23,792	18,089	0	0	5,339	0	98	0	266
Department of Commerce	395	70	0	0	325	0	0	0	0
Department of Defense, research ²	1,937	0	0	0	1,937	0	0	0	0
Department of Defense, total development ³	17,254	1	15,631	0	46	0	1,576	0	0
Department of Energy	61,806	44,442	12,233	0	3,510	0	1,495	0	126
Department of Health & Human Svcs	56,376	45,965	196	0	9,480	0	545	0	190
Department of the Interior	8,065	7,763	8	0	108	0	0	0	186
Department of Transportation	2,593	0	741	0	850	0	0	0	1,002
National Aeronautics and Space Admin	18,189	0	10,621	0	6,581	0	987	0	0
National Science Foundation	36,616	0	3,328	0	131	33,132	25	0	0
Wisconsin, total	377,801	41,110	19,094	0	298,239	0	14,783	0	4,575
Department of Agriculture	38,269	25,029	47	0	13,078	0	58	0	57
Department of Commerce	3,127	600	570	0	1,957	0	0	0	0
Department of Defense, research ²	9,687	96	2,224	0	7,367	0	0	0	0
Department of Defense, total development ³	4,532	0	3,076	0	1,456	0	0	0	0
Department of Energy	20,468	0	0	0	20,468	0	0	0	0
Department of Health & Human Svcs	219,342	94	4,836	0	198,484	0	14,632	0	1,296
Department of the Interior	15,862	15,291	4	0	435	0	0	0	132
Department of Transportation	3,886	0	825	0	561	0	0	0	2,500
Environmental Protection Agency	1,912	0	178	0	1,094	0	50	0	590
National Aeronautics and Space Admin	17,862	0	7,289	0	10,530	0	43	0	0
National Science Foundation	42,854	0	45	0	42,809	0	0	0	0
Wyoming, total	35,219	15,508	933	0	14,495	0	3,218	0	1,065
Department of Agriculture	8,405	5,916	0	0	2,489	0	0	0	0
Department of Commerce	25	0	0	0	25	0	0	0	0
Department of Defense, research ²	569	0	84	0	485	0	0	0	0
Department of Defense, total development ³	160	1	0	0	159	0	0	0	0
Department of Energy	4,190	0	0	0	889	0	3,218	0	83
Department of Health & Human Svcs	1,646	9	500	0	1,083	0	0	0	54
Department of the Interior	9,905	9,582	0	0	283	0	0	0	40
Department of Transportation	3,737	0	55	0	2,794	0	0	0	888
National Aeronautics and Space Admin	438	0	0	0	438	0	0	0	0
National Science Foundation	6,144	0	294	0	5,850	0	0	0	0
Outlying areas, total ⁴	133,110	55,157	11,749	35	56,857	8,747	12	0	553
Department of Agriculture	13,781	5,043	10	0	8,716	0	12	0	0
Department of Commerce	1,434	1,006	0	0	423	0	0	0	5
Department of Defense, research ²	1,614	0	0	0	1,614	0	0	0	0
Department of Defense, total development ³	45,712	37,890	7,545	35	242	0	0	0	0
Department of Energy	985	0	0	0	985	0	0	0	0
Department of Health & Human Svcs	38,222	1,744	4,183	0	31,747	0	0	0	548
Department of the Interior	9,501	9,074	11	0	416	0	0	0	0
Department of Transportation	994	400	0	0	594	0	0	0	0
National Aeronautics and Space Admin	3,755	0	0	0	3,755	0	0	0	0
National Science Foundation	17,112	0	0	0	8,365	8,747	0	0	0

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Table C-85. Federal obligations for research and development, by State, selected agency, and performer: fiscal year 1999

[Dollars in thousands]

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State and agency	Total	Intra-mural ¹	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Puerto Rico, total ⁴	72,709	8,548	4,193	0	50,661	8,747	12	0	548
Department of Agriculture	9,542	5,043	10	0	4,477	0	12	0	0
Department of Commerce	966	596	0	0	370	0	0	0	0
Department of Defense, research ²	1,355	0	0	0	1,355	0	0	0	0
Department of Defense, total development ³	8	8	0	0	0	0	0	0	0
Department of Energy	985	0	0	0	985	0	0	0	0
Department of Health & Human Svcs	37,065	1,122	4,183	0	31,212	0	0	0	548
Department of the Interior	1,847	1,779	0	0	68	0	0	0	0
Department of Transportation	74	0	0	0	74	0	0	0	0
National Aeronautics and Space Admin	3,755	0	0	0	3,755	0	0	0	0
National Science Foundation	17,112	0	0	0	8,365	8,747	0	0	0
Other areas, total ⁴	60,401	46,609	7,556	35	6,196	0	0	0	5
Department of Agriculture	4,239	0	0	0	4,239	0	0	0	0
Department of Commerce	468	410	0	0	53	0	0	0	5
Department of Defense, research ²	259	0	0	0	259	0	0	0	0
Department of Defense, total development ³	45,704	37,882	7,545	35	242	0	0	0	0
Department of Health & Human Svcs	1,157	622	0	0	535	0	0	0	0
Department of the Interior	7,654	7,295	11	0	348	0	0	0	0
Department of Transportation	920	400	0	0	520	0	0	0	0
Offices abroad, total	19,823	18,904	681	0	218	0	20	0	0
Department of Agriculture	3,784	3,764	0	0	0	0	20	0	0
Department of Defense, research ²	2,686	2,468	0	0	218	0	0	0	0
Department of Defense, total development ³	13,353	12,672	681	0	0	0	0	0	0

¹ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

² Beginning with Vol. 40, Department of Defense (DoD) research is reported separately from DoD development. DoD states that more than 90 percent of its development reported for "universities and colleges" is performed at off-campus, university-affiliated laboratories that are not involved in teaching.

³ Beginning with Vol. 44, Department of Defense development obligations are reported in two categories: advanced technology and major systems. Geographic data for these categories are not reported; therefore, this table shows only total development.

⁴ Outlying areas, total represents the sum of Puerto Rico, total and Other areas, total.

NOTE: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the 10 major R&D supporting agencies included in this table represent approximately 98 percent of total Federal R&D and R&D plant obligations in fiscal year 1999.

KEY: FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1999, 2000, and 2001